EL SEWEDY ELECTROMETER®
MANAGE UTILITIES BETTER

PLC Modem
EM-PLC-SmartG02

🏠 Residential   🏢 Commercial   🏭 Industrial

The SmartG-02 electricity meter series are modern, electronic, fully programmable devices, designed for application in AMI systems for monitoring and control of electricity consumption.

The SmartG-02 electricity meter series meet remote data transmission requirements and enable readouts of various measurands. The meters are compliant with IEC and DLMS/COSEM standards and have been designed to serve billing purposes.

The EM-PLC-SmartG02 is a data transmission modem that works over the Power line network .It uses the Prime protocol stack to send or receive the data.

The modem could be connected to the meter as a plug and play modem that could be connected through the RS485.

The Modem module is located in an external module box.

The Data Transmission Rate is 21.4 – 128.6 Kbit/s.

The module has a coupling wires that need to be connected back to the meter.

MODEM SPECIFICATIONS

Modem Characteristics	
Prime PLC Communication	• Power Line Carrier Modem for 50 & 60 HZ mains • 97-carriers OFDM PRIME • Differential BPSK, QPSK, 8-PSK PRIME compliant modulations
Communication Protocol	DLMS over Prime protocol stack
Power Source	The modem is powered from the meter, or from external power source
Environmental Conditions	
Temperature Range	-5°C to +70°C
Storage Temperature	-25°C to +80°C
Humidity Range	<90%
Altitude	0-3600M
Service Life	20 Years
Communication	
Serial Communication Port	RS-485 Complies with DLMS/COSEM direct HDLC protocol
Data Transmission Rate	RS-485: 2400 bit/s PLC: 21.4 – 128.6 Kbit/s

PLC   PRIME ALLIANCE®   ᐧdlms